

AMENDMENTS TO THE CLAIMS

1-143. (Cancelled)

144. (New) An autologous adipose tissue implant comprising:
a first portion of intact (non-disaggregated) adipose tissue removed from a patient mixed with a concentrated population of adipose-derived cells that comprises stem cells, wherein the population of adipose-derived cells comprising stem cells is concentrated from a second portion of adipose tissue removed from the same patient, and wherein the stem cell concentration in the concentrated population of adipose-derived cells that comprises stem cells is more than 1.7×10^5 cells/ml.

145. (New) The autologous adipose tissue implant of claim 144, wherein the stem cell concentration in the concentrated population of adipose-derived cells that comprises stem cells is more than 2.1×10^5 cells/ml.

146. (New) The autologous adipose tissue implant of claim 144, wherein the stem cell concentration in the concentrated population of adipose-derived cells that comprises stem cells is more than 2.5×10^5 cells/ml.

147. (New) The adipose tissue implant of claim 144, further comprising an additive.

148. (New) The adipose tissue implant of claim 147, wherein said additive is selected from the group consisting of growth factors, cytokines, a preformed matrix, cells, tissue, tissue fragments, disaggregating agents, antimicrobial agents, scaffolds, immunosuppressive agents, and antibiotics, or any combination thereof.

149. (New) The adipose tissue implant of claim 144, wherein said concentrated population of adipose-derived cells that comprises stem cells is not cultured.

150. (New) The adipose tissue implant of claim 144, wherein said concentrated population of adipose-derived cells that comprises stem cells is cultured.

151. (New) The adipose tissue implant of claim 144, wherein said concentrated population of adipose-derived cells that comprises stem cells is isolated in a closed, sterile fluid/tissue pathway.

152. (New) The adipose tissue implant of claim 144, wherein the first, second, or both portions are cryopreserved after removal from the patient.

153. (New) An autologous adipose tissue implant, comprising:

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a first portion of intact (non-disaggregated) adipose tissue comprising connective tissue removed from a patient, mixed with a concentrated population of adipose-derived cells that comprises stem cells, wherein the population of adipose-derived cells comprising stem cells is concentrated from a second portion of adipose tissue that is removed from the same patient and enzymatically treated, wherein the stem cell concentration in the concentrated population of adipose-derived cells that comprises stem cells is more than 1.7×10^5 cells/ml.